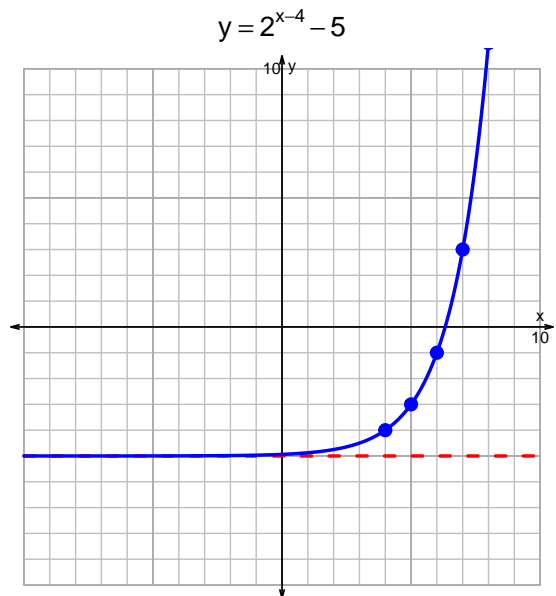
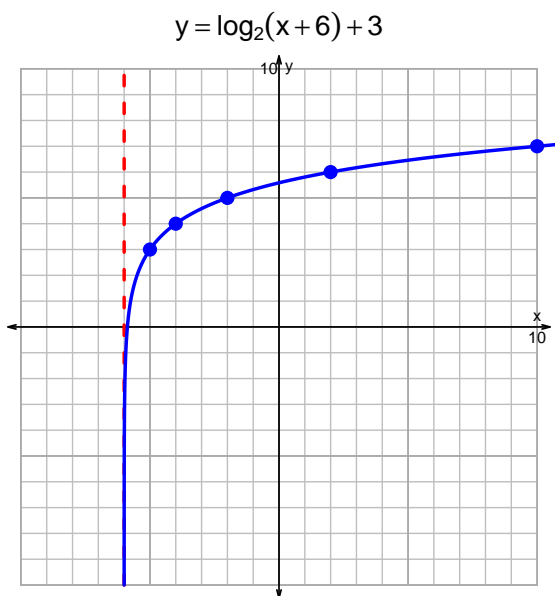


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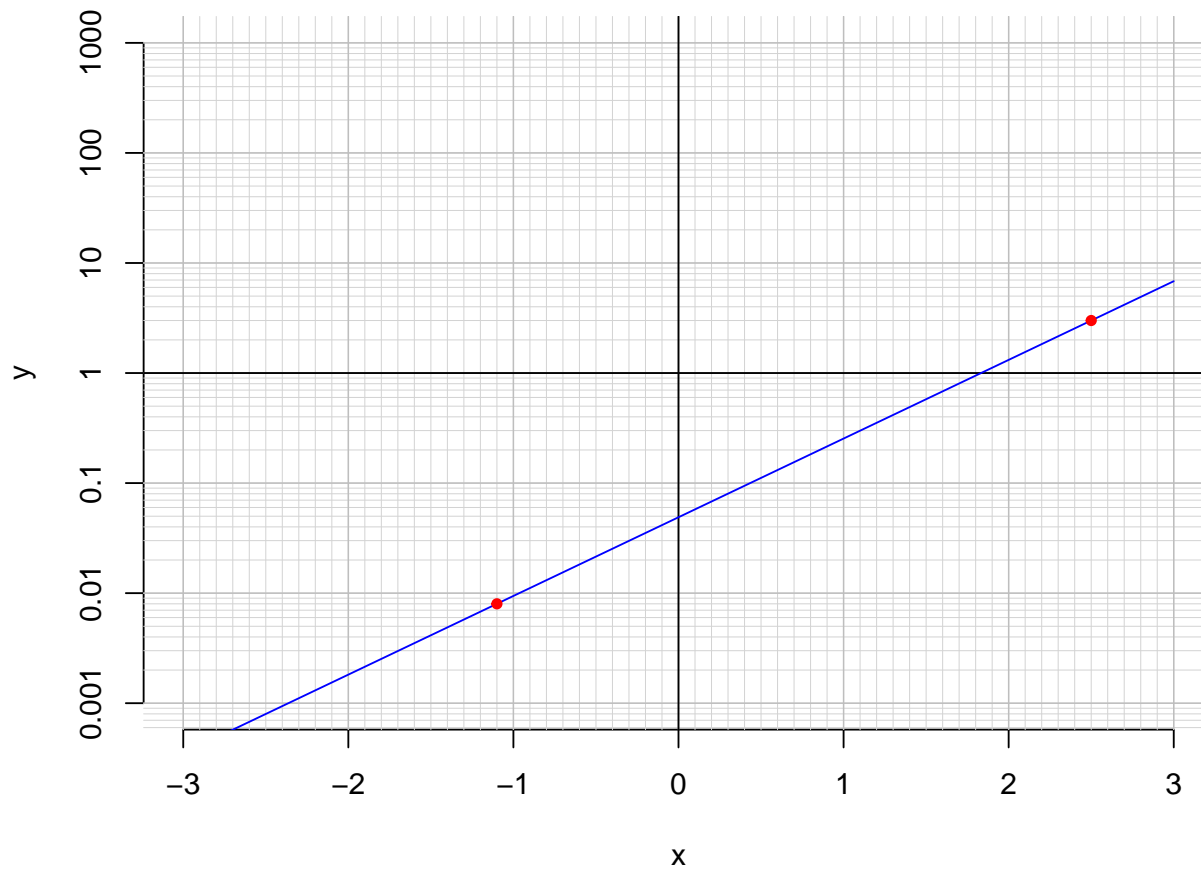
Date: _____

s18QUIZ: EXP LOG (SLTN v253)

1. Graph $y = \log_2(x + 6) + 3$ and $y = 2^{x-4} - 5$ on the grids below. Also, draw any asymptotes with dotted lines.



3. An exponential function $f(x) = 0.0489 \cdot e^{1.65x}$ is graphed below on a semi-log plot.



- a. Using the plot above, evaluate $f(2.5)$.

$$f(2.5) = 3$$

- b. Express $f^{-1}(x)$, the inverse of f .

$$f^{-1}(x) = \frac{1}{1.65} \cdot \ln\left(\frac{x}{0.0489}\right)$$

- c. Using the plot above, evaluate $f^{-1}(0.008)$.

$$f^{-1}(0.008) = -1.1$$